

WHAT IS CLAIMED IS:

1. A method for manufacturing an electron-emitting device, comprising:

a step for forming a polymer film between a pair of electrodes formed on a substrate;

a step for giving conductivity to said polymer film by heating; and

a step for providing potential difference between said pair of electrodes.

2. A method according to claim 1, wherein the step for giving conductivity to said polymer film by heating includes a step for illuminating an electron beam onto at least a part of said polymer film.

3. A method according to claim 1, wherein the step for giving conductivity to said polymer film by heating includes a step for illuminating light onto at least a part of said polymer film.

4. A method according to claim 3, wherein the light is light emitted from a xenon lamp as a light source.

5. A method according to claim 3, wherein the light is light emitted from a halogen lamp as a light source.

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6. A method according to claim 3, wherein the light is a laser beam.

5 7. A method according to claim 1, wherein said polymer film is an aromatic polymer film.

8. A method according to claim 1, wherein the step for forming a polymer film utilizes an ink jet system.

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9. A method for manufacturing an electron-emitting device, comprising:

a step for forming a polymer film between a pair of electrodes formed on a substrate;

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a step for reducing electrical resistance of said polymer film by heating said polymer film; and

a step for providing potential difference between said pair of electrodes.

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10. A method according to claim 9, wherein the step for reducing electrical resistance of said polymer film by heating said polymer film includes a step for illuminating an electron beam onto at least a part of said polymer film.

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11. A method according to claim 9, wherein the step for reducing electrical resistance of said polymer

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film by heating said polymer film includes a step for illuminating light onto at least a part of said polymer film.

5 12. A method according to claim 11, wherein the light is light emitted from a xenon lamp as a light source.

10 13. A method according to claim 11, wherein the light is light emitted from a halogen lamp as a light source.

15 14. A method according to claim 11, wherein the light is a laser beam.

 15. A method according to claim 9, wherein the step for forming a polymer film utilizes an ink jet system.

20 16. A method for manufacturing an electron-emitting device, comprising:

 a step for forming a polymer film between a pair of electrodes formed on a substrate;

25 a step for illuminating an electron beam onto at least a part of said polymer film; and

 a step for providing potential difference between said pair of electrodes.

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a step for illuminating light onto at least a part of said polymer film; and

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22. A method according to claim 21, wherein the

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27. A method according to claim 21, wherein said polymer film is an aromatic polymer film.

28. A method according to claim 21, wherein the
25 step for forming a polymer film utilizes an ink jet
system.

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